Section 1638

- 1 Construct an overflow spillway outlet, on natural ground, one foot above riser pipe. Plate
- 2 overflow spillway with erosion control stone Class B as specified in the plans.
- 3 Stabilize the embankment and surrounding areas with vegetation after installation. Construct
- 4 energy dissipater pad at the barrel pipe outlet with erosion control stone Class B in accordance
- 5 with the *Roadway Standard Drawings* No. 1630.01 and 1630.02.

6 1637-4 MAINTENANCE AND REMOVAL

- 7 Place a marker in the basin indicating the 50% volume level. Clean out riser basin when
- 8 sediment volume reaches 50% of the storage volume in accordance with Section 1630.
- 9 Remove riser basin devices as the project nears completion or as directed. Prepare a seed bed,
- 10 seed and mulch the area in accordance with Section 1660 after removal of the riser basin.

11 1637-5 MEASUREMENT AND PAYMENT

- 12 C.S. Pipe Tee Riser, __" Thick will be measured and paid in units of each installed and
- 13 accepted. Such price shall include furnishing and installing any additional pipe required for
- 14 correct riser height, the trash rack and the anti-flotation device.
- 15 Stone for Erosion Control, Class B will be measured and paid in accordance with
- 16 Section 1610.
- 17 Outlet Pipe will be measured and paid in accordance with Section 310.
- 18 Silt Excavation will be measured and paid in accordance with Section 1630.
- 19 Coir Fiber Baffle will be measured and paid in accordance with Section 1640.
- 20 Payment will not be made for any work performed under this section that is solely for the
- 21 convenience of the Contractor or that is made necessary due to negligence of the Contractor.
- 22 Payment will be made under:

Pay Item		Pay Unit
" x" x _	_" C.S. Pipe Tee Riser," Thick	Each

23 SECTION 1638 24 STILLING BASIN

25 **1638-1 DESCRIPTION**

- 26 Construct, maintain and remove earth embankments used to trap sediment from dewatering
- 27 construction sites during construction of drilled piers, footing excavation or culvert
- 28 construction. Work includes providing permeable stone drain, cleaning out, maintaining,
- removing and disposing of the stilling basins and all components and reshaping the area.
- 30 The actual conditions that occur during the construction of the project will determine the
- 31 quantity of stilling basins constructed. The quantity of stilling basins may be increased,
- 32 decreased or eliminated entirely as directed. Such variations in quantity will not be
- 33 considered as alterations in the details of construction or a change in the character of the
- 34 work.

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1638-2 MATERIALS

- 36 Use suitable excavated materials, as specified in Sections 225, 230 and 240, in the
- construction of earth embankments for stilling basins, except where otherwise specified.
- 38 Refer to Division 10.

Item	Section
Stone for Erosion Control, Class A or Class B	1042-1
Sediment Control Stone, Standard Size No. 5 or 57	1005

Item Section 1060-14 Coir Fiber Mat 1638-3 CONSTRUCTION METHODS 1 2 Construct stilling basins at the locations shown in the plans and at other locations as directed. 3 Construct earth embankment with a permeable stone drain in a rectangular form adjacent to 4 the stream and culvert following the applicable requirements of Section 235. The maximum 5 height allowed for earth dikes is 5 ft. Excavate below the natural ground for greater depths of basins. 6 7 Install coir fiber baffles in accordance with Section 1640 and as directed. 8 1638-4 MAINTENANCE AND REMOVAL 9 Maintain the stilling basins, coir fiber baffles and remove and dispose of silt accumulations at 10 the stilling basins in accordance with Section 1630. 11 Remove the stilling basins as the project nears completion, or at such time the Engineer 12 deems the device to be no longer useful. Prepare a seed bed and seed and mulch the area 13 after removal of the stilling basin in accordance with Section 1660. 14 1638-5 MEASUREMENT AND PAYMENT 15 Stilling Basin quantities will be measured and paid in cubic yards, in place and computed by 16 the average-end-method for the actual number of cubic yards of basin capacity. The 17 measurements will be the internal measurements of the basin measured up to the top of the 18 permeable stone drain. Materials used to construct the basin that originates from another 19 payment item (i.e. unclassified excavation, borrow excavation) will not be deducted from the 20 volume of that original pay item. Stone for Erosion Control, Class will be measured and paid in accordance with 21 Section 1610. 22 23 Sediment Control Stone will be measured and paid in accordance with Section 1610. 24 Coir Fiber Baffle will be measured and paid in accordance with Section 1640. 25 Payment will be made under: Pav Item **Pay Unit** Stilling Basins Cubic Yard SECTION 1639 26 SPECIAL STILLING BASIN 27 28 1639-1 DESCRIPTION 29 Furnish, place and remove special stilling basins as directed. The special stilling basin can be 30 used to filter pumped water during construction of drilled piers, footing excavation or culvert 31 construction. The special stilling basin can be used for sediment storage at the outlet of 32 temporary slope drain pipes. 33 1639-2 MATERIALS 34 Refer to Division 10. Section Item Geotextile for Drainage, Type 2 1056

16-17

Use geotextile and sediment control stone that is clean and without debris.

1005

Sediment Control Stone, Standard Size No. 5 or 57

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